

10509411\_CLS1.txt  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10509411 on June 14, 2006

2/26/03

Original Classifications

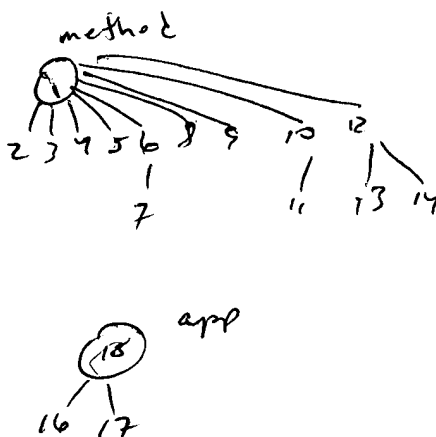
2 348/416.1  
2 375/341  
2 375/346  
2 704/211

Cross-Reference Classifications

3 375/262  
2 84/622  
2 84/659  
2 331/78  
2 382/103  
2 382/199  
2 382/236  
2 382/282  
2 704/267  
2 708/250  
2 714/795

Combined Classifications

3 375/262  
3 375/341  
3 704/211  
3 704/267  
2 84/622  
2 84/659  
2 331/78  
2 348/416.1  
2 375/346  
2 382/103  
2 382/199  
2 382/236  
2 382/282  
2 382/295  
2 705/407  
2 708/250  
2 714/795



Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10509411 on June 14, 2006

- 3 375/262 (0 OR, 3 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/259 SYSTEMS USING ALTERNATING OR PULSATING CURRENT  
  
375/260 .Plural channels for transmission of a single  
pulse train  
375/261 ..Quadrature amplitude modulation  
375/262 ...Maximum likelihood decoder or viterbi  
decoder
- 3 375/341 (2 OR, 1 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/316 RECEIVERS  
375/340 .Particular pulse demodulator or detector  
375/341 ..Maximum likelihood decoder or viterbi decoder
- 3 704/211 (2 OR, 1 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO  
COMPRESSION/DECOMPRESSION  
704/200 SPEECH SIGNAL PROCESSING  
704/201 .For storage or transmission  
704/211 ..Time
- 3 704/267 (1 OR, 2 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO  
COMPRESSION/DECOMPRESSION  
704/200 SPEECH SIGNAL PROCESSING  
704/258 .Synthesis  
704/267 ..Time element
- 2 84/622 (0 OR, 2 XR)  
Class 084 : MUSIC  
84/1 INSTRUMENTS  
84/600 .Electrical musical tone generation  
84/601 ..Data storage  
84/602 ...Digital memory circuit (e.g., RAM, ROM,  
etc.)  
84/622 ....Tone synthesis or timbre control
- 2 84/659 (0 OR, 2 XR)  
Class 084 : MUSIC  
84/1 INSTRUMENTS  
84/600 .Electrical musical tone generation  
84/647 ..Digital combinational circuit  
84/659 ...Tone synthesis or timbre control
- 2 331/78 (0 OR, 2 XR)  
Class 331 : OSCILLATORS  
331/78 ELECTRICAL NOISE OR RANDOM WAVE GENERATOR
- 2 348/416.1 (2 OR, 0 XR)  
Class 348 : TELEVISION  
348/384.1 BANDWIDTH REDUCTION SYSTEM  
348/390.1 .Data rate reduction  
348/409.1 ..Involving difference transmission (e.g.,  
predictive)

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348/415.1 ...Including temporal prediction (e.g., frame difference)

348/416.1 ....Including motion vector

2 375/346 (2 OR, 0 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/316 RECEIVERS  
 375/346 .Interference or noise reduction

2 382/103 (0 OR, 2 XR)  
 Class 382 : IMAGE ANALYSIS  
 382/100 APPLICATIONS  
 382/103 .Target tracking or detecting

2 382/199 (0 OR, 2 XR)  
 Class 382 : IMAGE ANALYSIS  
 382/181 PATTERN RECOGNITION  
 382/190 .Feature extraction  
 382/195 ..Local or regional features  
 382/199 ...Pattern boundary and edge measurements

2 382/236 (0 OR, 2 XR)  
 Class 382 : IMAGE ANALYSIS  
 382/232 IMAGE COMPRESSION OR CODING  
 382/236 .Interframe coding (e.g., difference or motion detection)

2 382/282 (0 OR, 2 XR)  
 Class 382 : IMAGE ANALYSIS  
 382/276 IMAGE TRANSFORMATION OR PREPROCESSING  
 382/282 .Selecting a portion of an image

2 382/295 (1 OR, 1 XR)  
 Class 382 : IMAGE ANALYSIS  
 382/276 IMAGE TRANSFORMATION OR PREPROCESSING  
 382/293 .Changing the image coordinates  
 382/295 ..To position or translate an image

2 705/407 (1 OR, 1 XR)  
 Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION  
 705/400 FOR COST/PRICE  
 705/401 .Postage meter system  
 705/407 ..Including mailed item weight

2 708/250 (0 OR, 2 XR)  
 Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING AND CALCULATING  
 708/100 ELECTRICAL DIGITAL CALCULATING COMPUTER  
 708/200 .Particular function performed  
 708/250 ..Random number generation

2 714/795 (0 OR, 2 XR)  
 Class 714 : ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY  
 714/699 PULSE OR DATA ERROR HANDLING  
 714/746 .Digital data error correction  
 714/786 ..Forward error correction by tree code (e.g., convolutional)  
 714/795 ...Viterbi decoding

PLUS Search Results for S/N 10509411, Searched June 14, 2006

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## EAST Search History

| Ref # | Hits | Search Query                                    | DBs                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--------------------|------------------|---------|------------------|
| L1    | 993  | watermark\$5 and interpolat\$5                  | US-PGPUB;<br>USPAT | OR               | ON      | 2006/06/14 09:32 |
| L2    | 682  | watermark\$5 and interpolat\$5 and<br>symbol\$5 | US-PGPUB;<br>USPAT | OR               | ON      | 2006/06/14 09:32 |


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| IEE JNL  | IEE Journal or Magazine    |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF  | IEE Conference Proceeding  |
| IEEE STD | IEEE Standard              |

- ☐ **Optimal watermark detection on interpolated images under noise**  
 Giannoula, A.; Boulgouris, N.V.; Hatzinakos, D.;  
[Image Processing, 2004. ICIP '04. 2004 International Conference on](#)  
 Volume 4, 24-27 Oct. 2004 Page(s):2187 - 2190 Vol. 4  
 Digital Object Identifier 10.1109/ICIP.2004.1421530  
[AbstractPlus](#) | Full Text: [PDF](#)(589 KB) IEEE CNF  
[Rights and Permissions](#)
- ☐ **Fused watermark detection on noisy interpolated images**  
 Giannoula, A.; Boulgouris, N.V.; Hatzinakos, D.;  
[Electrical and Computer Engineering, 2004. Canadian Conference on](#)  
 Volume 2, 2-5 May 2004 Page(s):1171 - 1174 Vol.2  
[AbstractPlus](#) | Full Text: [PDF](#)(365 KB) IEEE CNF  
[Rights and Permissions](#)
- ☐ **Watermark Detection for Noisy Interpolated Images**  
 Giannoula, A.; Boulgouris, N.V.; Hatzinakos, D.; Plataniotis, K.N.;  
[Circuits and Systems II: Express Briefs, IEEE Transactions on \[see also Circuits and Systems II: A](#)  
[Signal Processing, IEEE Transactions on\]](#)  
 Volume 53, Issue 5, May 2006 Page(s):359 - 363  
 Digital Object Identifier 10.1109/TCSII.2006.870213  
[AbstractPlus](#) | Full Text: [PDF](#)(248 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ **Fingerprinted secret sharing steganography for robustness against image cropping attacks**  
 Potdar, V.M.; Han, S.; Chang, E.;  
[Industrial Informatics, 2005. INDIN '05. 2005 3rd IEEE International Conference on](#)  
 10-12 Aug. 2005 Page(s):717 - 724  
 Digital Object Identifier 10.1109/INDIN.2005.1560463  
[AbstractPlus](#) | Full Text: [PDF](#)(2985 KB) IEEE CNF  
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## » Key

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|----------|----------------------------|
| IEEE JNL | IEEE Journal or Magazine   |
| IEE JNL  | IEE Journal or Magazine    |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF  | IEE Conference Proceeding  |
| IEEE STD | IEEE Standard              |

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View: 1-25 |

- ☐ 1. **Attacks on digital watermarks: classification, estimation based attacks, and benchmarks**  
 Voloshynovskiy, S.; Pereira, S.; Pun, T.; Eggers, J.J.; Su, J.K.;  
[Communications Magazine, IEEE](#)  
 Volume 39, Issue 8, Aug. 2001 Page(s):118 - 126  
 Digital Object Identifier 10.1109/35.940053  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(2536 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 2. **Digital image watermarking using balanced multiwavelets**  
 Ghouti, L.; Bouridane, A.; Ibrahim, M.K.; Boussakta, S.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEE](#)  
 Volume 54, Issue 4, April 2006 Page(s):1519 - 1536  
 Digital Object Identifier 10.1109/TSP.2006.870624  
[AbstractPlus](#) | Full Text: [PDF](#)(6096 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **On the use of masking models for image and audio watermarking**  
 Robert, A.; Picard, J.;  
[Multimedia, IEEE Transactions on](#)  
 Volume 7, Issue 4, Aug. 2005 Page(s):727 - 739  
 Digital Object Identifier 10.1109/TMM.2005.846781  
[AbstractPlus](#) | Full Text: [PDF](#)(848 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 4. **A temporal domain audio watermarking technique**  
 Lemma, A.N.; Aprea, J.; Oomen, W.; van de Kerkhof, L.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEE](#)  
 Volume 51, Issue 4, April 2003 Page(s):1088 - 1097  
 Digital Object Identifier 10.1109/TSP.2003.809372  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(557 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 5. **Attacks on digital audio watermarks and countermeasures**  
 Arnold, M.;  
[Web Delivering of Music, 2003. 2003 WEDELMUSIC, Proceedings, Third International Conference](#)  
 15-17 Sept. 2003 Page(s):55 - 62  
 Digital Object Identifier 10.1109/WDM.2003.1233874



[AbstractPlus](#) | Full Text: [PDF\(393 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

- ☐ 6. **1999 IEEE International Conference on Acoustics, Speech, and Signal Processing. Proceeding No.99CH36258)**  
[Acoustics, Speech, and Signal Processing, 1999. ICASSP '99. Proceedings., 1999 IEEE International Conference on](#)  
Volume 1, 15-19 March 1999  
Digital Object Identifier 10.1109/ICASSP.1999.758046  
[AbstractPlus](#) | Full Text: [PDF\(2636 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 7. **Blind audio watermark decoding using independent component analysis**  
Sener, S.; Gunesel, B.;  
[Pattern Recognition, 2004. ICPR 2004. Proceedings of the 17th International Conference on](#)  
Volume 2, 23-26 Aug. 2004 Page(s):875 - 878 Vol.2  
Digital Object Identifier 10.1109/ICPR.2004.1334398  
[AbstractPlus](#) | Full Text: [PDF\(332 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 8. **Watermarking of audio signals using independent component analysis**  
Toch, B.; Lowe, D.; Saad, D.;  
[Web Delivering of Music, 2003. 2003 WEDELMUSIC. Proceedings. Third International Conference](#)  
15-17 Sept. 2003 Page(s):71 - 74  
Digital Object Identifier 10.1109/WDM.2003.1233877  
[AbstractPlus](#) | Full Text: [PDF\(286 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 9. **Multimedia watermarking techniques**  
Hartung, F.; Kutter, M.;  
[Proceedings of the IEEE](#)  
Volume 87, Issue 7, July 1999 Page(s):1079 - 1107  
Digital Object Identifier 10.1109/5.771066  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1372 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 10. **Spread-spectrum watermarking of audio signals**  
Kirovski, D.; Malvar, H.S.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEEE Transactions on\]](#)  
Volume 51, Issue 4, April 2003 Page(s):1020 - 1033  
Digital Object Identifier 10.1109/TSP.2003.809384  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1399 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 11. **Data-hiding codes**  
Moulin, P.; Koetter, R.;  
[Proceedings of the IEEE](#)  
Volume 93, Issue 12, Dec. 2005 Page(s):2083 - 2126  
Digital Object Identifier 10.1109/JPROC.2005.859599  
[AbstractPlus](#) | Full Text: [PDF\(1456 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 12. **Efficiently self-synchronized audio watermarking for assured audio data transmission**  
Shaoquan Wu; Jiwu Huang; Daren Huang; Shi, Y.Q.;  
[Broadcasting, IEEE Transactions on](#)  
Volume 51, Issue 1, March 2005 Page(s):69 - 76  
Digital Object Identifier 10.1109/TBC.2004.838265  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(616 KB\)](#) IEEE JNL  
[Rights and Permissions](#)

13. **Digital watermarking: algorithms and applications**  
Podilchuk, C.I.; Delp, E.J.;  
[Signal Processing Magazine, IEEE](#)  
Volume 18, Issue 4, July 2001 Page(s):33 - 46  
Digital Object Identifier 10.1109/79.939835  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(1180 KB) IEEE JNL  
[Rights and Permissions](#)
14. **Performance analysis of correlation-based watermarking schemes employing Markov chaot**  
Tefas, A.; Nikolaidis, A.; Nikolaidis, N.; Solachidis, V.; Tsekeridou, S.; Pitas, I.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEE](#)  
Volume 51, Issue 7, July 2003 Page(s):1979 - 1994  
Digital Object Identifier 10.1109/TSP.2003.811245  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(857 KB) IEEE JNL  
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15. **Data-hiding in audio using frequency-selective phase alteration**  
Ansari, R.; Malik, H.; Khokhar, A.;  
[Acoustics, Speech, and Signal Processing, 2004. Proceedings. \(ICASSP '04\). IEEE International C](#)  
Volume 5, 17-21 May 2004 Page(s):V - 389-92 vol.5  
Digital Object Identifier 10.1109/ICASSP.2004.1327129  
[AbstractPlus](#) | Full Text: [PDF](#)(274 KB) IEEE CNF  
[Rights and Permissions](#)
16. **An asymmetric watermarking system with many embedding watermarks corresponding to o**  
**watermark**  
Tae Young Kim; Hyuk Choi; Kiryung Lee; Taejeong Kim;  
[Signal Processing Letters, IEEE](#)  
Volume 11, Issue 3, March 2004 Page(s):375 - 377  
Digital Object Identifier 10.1109/LSP.2003.822923  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(144 KB) IEEE JNL  
[Rights and Permissions](#)
17. **SpeechFind: Advances in Spoken Document Retrieval for a National Gallery of the Spoken V**  
Hansen, J.H.L.; Rongqing Huang; Bowen Zhou; Seadle, M.; Deller, J.R., Jr.; Gurijala, A.R.; Kurimo  
[Speech and Audio Processing, IEEE Transactions on](#)  
Volume 13, Issue 5, Part 1, Sept. 2005 Page(s):712 - 730  
Digital Object Identifier 10.1109/TSA.2005.852088  
[AbstractPlus](#) | Full Text: [PDF](#)(1688 KB) IEEE JNL  
[Rights and Permissions](#)
18. **Robust optimum detection of transform domain multiplicative watermarks**  
Qiang Cheng; Huang, T.S.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEE](#)  
Volume 51, Issue 4, April 2003 Page(s):906 - 924  
Digital Object Identifier 10.1109/TSP.2003.809374  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(1211 KB) IEEE JNL  
[Rights and Permissions](#)
19. **An integrated decoding framework for audio watermark extraction**  
Yasian, Y.; Gunsel, B.;  
[Pattern Recognition, 2004. ICPR 2004. Proceedings of the 17th International Conference on](#)  
Volume 2, 23-26 Aug. 2004 Page(s):879 - 882 Vol.2  
Digital Object Identifier 10.1109/ICPR.2004.1334399  
[AbstractPlus](#) | Full Text: [PDF](#)(275 KB) IEEE CNF  
[Rights and Permissions](#)
20. **A novel spread spectrum audio watermarking scheme based on time-frequency characterist**

Esmaili, S.; Krishnan, S.; Raahemifar, K.;

[Electrical and Computer Engineering, 2003. IEEE CCECE 2003. Canadian Conference on](#)  
Volume 3, 4-7 May 2003 Page(s):1963 - 1966 vol.3

[AbstractPlus](#) | Full Text: [PDF](#)(340 KB) IEEE CNF

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**21. A new Wiener filtering based detection scheme for time domain perceptual audio watermark**

Larbi, S.; Jaidane, M.; Moreati, N.;

[Acoustics, Speech, and Signal Processing, 2004. Proceedings. \(ICASSP '04\). IEEE International C](#)  
Volume 5, 17-21 May 2004 Page(s):V - 949-52 vol.5

Digital Object Identifier 10.1109/ICASSP.2004.1327269

[AbstractPlus](#) | Full Text: [PDF](#)(567 KB) IEEE CNF

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**22. Watermarking sinusoidal audio representations by quantization index modulation in multi**

Yi-Wen Liu; Smith, J.O.;

[Acoustics, Speech, and Signal Processing, 2004. Proceedings. \(ICASSP '04\). IEEE International C](#)  
Volume 5, 17-21 May 2004 Page(s):V - 373-6 vol.5

Digital Object Identifier 10.1109/ICASSP.2004.1327125

[AbstractPlus](#) | Full Text: [PDF](#)(431 KB) IEEE CNF

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**23. Reversible data embedding into images using wavelet techniques and sorting**

Kamstra, L.; Heijmans, H.J.A.M.;

[Image Processing, IEEE Transactions on](#)

Volume 14, Issue 12, Dec. 2005 Page(s):2082 - 2090

Digital Object Identifier 10.1109/TIP.2005.859373

[AbstractPlus](#) | Full Text: [PDF](#)(368 KB) IEEE JNL

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**24. Self-synchronized audio watermark in DWT domain**

Shaoquan Wu; Jiwu Huang; Daren Huang; Shi, Y.Q.;

[Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International Symposium on](#)  
Volume 5, 23-26 May 2004 Page(s):V-712 - V-715 Vol.5

[AbstractPlus](#) | Full Text: [PDF](#)(243 KB) IEEE CNF

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**25. Two-band amplitude scale estimation for quantization-based watermarking**

Jinshen Wang; Shterev, I.D.; Legendijk, R.L.;

[Intelligent Signal Processing and Communication Systems, 2005. ISPACS 2005. Proceedings of 21](#)  
[Symposium on](#)

13-16 Dec. 2005 Page(s):137 - 140

Digital Object Identifier 10.1109/ISPACS.2005.1595365

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| IEE JNL  | IEE Journal or Magazine    |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF  | IEE Conference Proceeding  |
| IEEE STD | IEEE Standard              |

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- ☐ 1. **Two-sided controlled transition in biorthogonal time-varying filter banks**  
 Lemma, A.N.; Deprettere, E.F.;  
[Signal Processing Letters, IEEE](#)  
 Volume 3, Issue 2, Feb. 1996 Page(s):47 - 50  
 Digital Object Identifier 10.1109/97.484214  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(324 KB\)](#) IEEE JNL  
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- ☐ 2. **Time-varying biorthogonal filter banks: a state-space approach**  
 Lemma, A.N.; Deprettere, E.F.;  
[Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on \[see also Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on\]](#)  
 Volume 45, Issue 3, March 1998 Page(s):280 - 289  
 Digital Object Identifier 10.1109/81.662701  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(448 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **Multiresolution ESPRIT algorithm**  
 Lemma, A.N.; van der Veen, A.-J.; Deprettere, E.F.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEEE Transactions on\]](#)  
 Volume 47, Issue 6, June 1999 Page(s):1722 - 1726  
 Digital Object Identifier 10.1109/78.765149  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(188 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 4. **Analysis of joint angle-frequency estimation using ESPRIT**  
 Lemma, A.N.; van der Veen, A.-J.; Deprettere, E.F.;  
[Signal Processing, IEEE Transactions on \[see also Acoustics, Speech, and Signal Processing, IEEE Transactions on\]](#)  
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